

**AMENDMENTS TO THE CLAIMS**

Please amend the claims as follows:

1. (Previously Presented) A method for dynamic distributed data caching comprising:

providing a cache community on a first side of a point of presence, the cache community comprising at least one peer, each peer having an associated first content portion indicating content obtained from a second side of the point of presence to be cached by the respective peer;

allowing a client to join the cache community;

updating a peer list associated with the cache community to include the client, the peer list indicating the peers in the cache community; and

associating a respective second content portion with each peer based on the addition of the client, the second content portion being distinct from the first content portion.

2. (Original) The method for dynamic distributed data caching according to Claim 1 and further comprising:

receiving a join request from the client; and

determining whether to allow the client to join the cache community.

3. (Original) The method dynamic distributed data caching according to Claim 2, wherein the join request comprises a CRMSG\_REQUESTTOJOIN data message.

4. (Original) The method for dynamic distributed data caching according to Claim 1, wherein allowing the client to join the cache community comprises:

generating an allow message;

associating the peer list with the allow message; and

communicating the allow message to the client.

5. (Original) The method for dynamic distributed data caching according to Claim 4, wherein allowing the client to join the cache community comprises:  
generating an allow message comprising the peer list updated to include the client;  
communicating the allow message to the client; and  
communicating the allow message to at least one member associated with the cache community.

6. (Original) The method for dynamic distributed data caching according to Claim 4, wherein the allow message comprises a CRMSG\_UPDATEPEERLIST data message.

7. (Original) The method for dynamic distributed caching according to Claim 4, wherein the peer list associated with the allow message comprises the updated peer list which includes the client.

8. (Previously Presented) The method for dynamic distributed data caching according to Claim 1, wherein the point of presence is an ISP.

9. (Original) The method for dynamic distributed data caching according to Claim 1, wherein a one of the peers comprises a member.

10. (Original) The method for dynamic distributed data caching according to Claim 1, wherein a one of the peers comprises a master.

11. (Original) The method for dynamic distributed data caching according to Claim 1, wherein associating a respective second content portion comprises:  
allocating respective second content portions to peers in the peer list; and  
updating an allocation table to indicate the second content portion associated with the peers.

12. (Original) The method for dynamic distributed data caching according to Claim 11, wherein the second content portions are distinct.

13. (Original) The method for dynamic distributed data caching according to Claim 11, wherein at least two of the second content portions overlap.

14. (Original) The method for dynamic distributed data caching according to Claim 11, wherein the first and second content portions respectively comprise a plurality of internet protocol domain names.

15. (Original) The method for dynamic distributed data caching according to Claim 1 and further comprising removing the association between the first content portions and the peers.

16. (Previously Presented) A system for dynamic distributed data caching comprising:

logic encoded on storage and operable to:

provide a cache community on a first side of a point of presence, the cache community comprising at least one peer, each peer having an associated first content portion indicating content obtained from a second side of the point of presence to be cached by the respective peer;

allow a client to join the cache community;

update a peer list associated with the cache community to include the client, the peer list indicating the peers in the cache community; and

associate a respective second content portion with each peer based on the addition of the client, the second content portion being distinct from the first content portion.

17. (Original) The system for dynamic distributed data caching according to Claim 16, wherein the logic is further operable to:

receive a join request from the client; and

determine whether to allow the client to join the cache community.

18. (Original) The system for dynamic distributed data caching according to Claim 17, wherein the join request comprises a CRMSG\_REQUESTTOJOIN data message.

19. (Original) The system for dynamic distributed data caching according to Claim 16, wherein the logic is further operable to:

- generate an allow message;
- associate the peer list with the allow message;
- communicate the allow message to the client.

20. (Original) The system for dynamic distributed data caching according to Claim 19, wherein the logic is further operable to:

- generate an allow message comprising the peer list updated to include the client;
- communicate the allow message to the client; and
- communicate the allow message to at least one member associated with the cache community.

21. (Original) The system for dynamic distributed data caching according to Claim 19, wherein the allow message comprises a CRMSG\_UPDATEPEERLIST data message.

22. (Original) The system for dynamic distributed caching according to Claim 19, wherein the peer list associated with the allow message comprises the updated peer list which includes the client.

23. (Previously Presented) The system for dynamic distributed data caching according to Claim 16, wherein the point of presence is an ISP.

24. (Original) The system for dynamic distributed data caching according to Claim 16, wherein a one of the peers comprises a member.

25. (Original) The system for dynamic distributed data caching according to Claim 16, wherein a one of the peers comprises a master.

26. (Original) The system for dynamic distributed data caching according to Claim 16, wherein the logic is further operable to:

allocate respective second content portions to peers in the peer list; and  
update an allocation table to indicate the second content portion associated with the peers.

27. (Original) The system for dynamic distributed data caching according to Claim 26, wherein the second content portions are distinct.

28. (Original) The system for dynamic distributed data caching according to Claim 26, wherein at least two of the second content portions overlap.

29. (Original) The system for dynamic distributed data caching according to Claim 26, wherein the first and second content portions respectively comprise a plurality of internet protocol domain names.

30. (Original) The system for dynamic distributed data caching according to Claim 16, wherein the logic is further operable to remove the association between the first content portions and the peers.

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95. (Currently Amended) A method for dynamic distributed data caching comprising:

communicating a community request from a dynamic cache module to an administration module;

receiving a community list from the administration module in response to the community request, the community list including a list of communities;

selecting one of the communities to attempt to join;

generating a join request to attempt to join the selected community; ~~a one of the communities in the community list;~~

receiving an allow message associated with the one of the communities;

receiving a peer list associated with the one of the communities;

receiving a content request; and

storing content associated with the content request.

96. (Original) The method for dynamic distributed data caching according to Claim 95, wherein the community request comprises a CRMSG\_WAKEUP data message.

97. (Original) The method for dynamic distributed data caching according to Claim 95, wherein the join request comprises a CRMSG\_REQUESTTOJOIN data message.

98. (Currently Amended) A system for dynamic distributed data caching comprising:

logic encoded on storage and operable to:

communicate a community request from a dynamic cache module to an administration module;

receive a community list from the administration module in response to the community request, the community list including a list of communities;

select one of the communities to attempt to join;

generate a join request to attempt to join the selected community; ~~a one of the communities in the community list;~~

receive an allow message associated with the one of the communities;

receive a peer list associated with the one of the communities;

receive a content request; and

store content associated with the content request.

99. (Original) The system for dynamic distributed data caching according to Claim 98, wherein the community request comprises a CRMSG\_WAKEUP data message.

100. (Original) The system for dynamic distributed data caching according to Claim 98, wherein the join request comprises a CRMSG\_REQUESTTOJOIN data message.



101. (Previously Presented) A system for dynamic distributed data caching comprising:

means for providing a cache community on a first side of a point of presence, the cache community comprising at least one peer, each peer having an associated first content portion indicating content obtained from a second side of the point of presence to be cached by the respective peer;

means for allowing a client to join the cache community;

means for updating a peer list associated with the cache community to include the client, the peer list indicating the peers in the cache community; and

means for associating a respective second content portion with each peer based on the addition of the client, the second content portion being distinct from the first content portion.

102. (Canceled)

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105. (Currently Amended) A system for dynamic distributed data caching comprising:

means for communicating a community request from a dynamic cache module to an administration module;

means for receiving a community list from the administration module in response to the community request, the community list including a list of communities;

means for selecting one of the communities to attempt to join;

means for generating a join request to attempt to join the selected community; ~~a one of the communities in the community list;~~

means for receiving an allow message associated with the one of the communities;

means for receiving a peer list associated with the one of the communities;

means for receiving a content request; and

means for storing content associated with the content request.